FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB	APPROVAL

hours per response:

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0.5

## Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

			or Section 30(h) of the Investment Company Act of 1940	
1. Name and Addi		Person*	2. Issuer Name <b>and</b> Ticker or Trading Symbol ZIOPHARM ONCOLOGY INC [ ZIOP ]	Relationship of Reporting Person(s) to Issuer (Check all applicable)     X Director X 10% Owner
	(First) ECURITY, LLC	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 07/01/2016	Officer (give title Other (specify below) below)
1881 GROVE AVENUE  (Street)  RADFORD VA 24141			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line)  Form filed by One Reporting Person  X Form filed by More than One Reporting Person
(City)	(State)	(Zip)		

1881 GROVE AVENUE					4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Application)									
(Street) RADFORD VA 24141				4. 1174	nenament, Bate of	ong.na.	i i iicu	(World #Bay		Eine)  Form filed by One Reporting Person  Form filed by More than One Reporting Person				
(City)	(State)	(Zip)	na Davisca	dive C	· acceptation A and		Dia		or Don	oficia	ally Owned			
Date			2. Transac	action 2A. Deemed Execution Date, if any		3.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
						Code V		Amount (A) or (D) Pri		Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)	
Common Stock	:										122,309	D		
Common Stock											3,479,685	I	by R.J. Kirk DOT <sup>(1)</sup>	
Common Stock	:										23,349	I	by JPK 2008 <sup>(1)</sup>	
Common Stock											23,504	I	by MGK 2008 <sup>(1)</sup>	
Common Stock											40,954	I	by ZSK 2008 <sup>(1)</sup>	
Common Stock	:										240	I	by Lotus <sup>(1)</sup>	
Common Stock	:										53,245	I	by Staff 2001 <sup>(1)</sup>	
Common Stock	:										9,537	I	by Sr. Staff <sup>(1)</sup>	
Common Stock	:										337,333	I	by JPK 2009 <sup>(1)</sup>	
Common Stock	:										358,386	I	by MGK 2009 <sup>(1)</sup>	
Common Stock	:										34,318	I	by ZSK 2009 <sup>(1)</sup>	
Common Stock	:										29,066	I	by ADC 2010 <sup>(1)</sup>	
Common Stock	:										154,181	I	by MGK 2011 <sup>(1)</sup>	
Common Stock											138,975	I	by JPK 2012 <sup>(1)</sup>	
Common Stock	:										61,262	I	by Kellie L. Banks LTT <sup>(1)</sup>	
Common Stock											2,359,608	I	by Kapita Joe <sup>(2)</sup>	
Common Stock											889,513	I	by Mascara Kaboom <sup>(2</sup>	

1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)		ear)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code ( 8)		4. Securiti Disposed 5)	es Acquire Of (D) (Inst	d (A) or r. 3, 4 and	5. Amoun Securities Beneficial Owned Fo	s lly ollowing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Indirect Benefic Owners		
									Code	v	Amount	(A) or (D)	Price	Reported Transaction (Instr. 3 and	on(s)		(Instr. 4
Common	Stock													395,	791	I	by Ser Staff 2008 <sup>(2)</sup>
Common	Stock													222,	680	I	by Sta 2010 <sup>(2</sup>
Common	Stock													111,	339	I	by Incent 2010 <sup>(2</sup>
Common	Stock													352,	477	I	by Ser Staff 2007 <sup>(2)</sup>
Common	Stock													176,	238	I	by Sta 2007 <sup>(2</sup>
Common Stock													58,7	746	I	by Incent 2007 <sup>(2</sup>	
Common	Stock													1 173111 1 1 1			by Sta 2009 <sup>(2</sup>
Common	Common Stock												86,5	556	I	by Incent 2009 <sup>(2</sup>	
			Table II -				urities A ls, warra							Owned			,
1. Title of Derivative Security (Instr. 3)	of 2. 3. Transaction 3A. Deemed 4. 5. Number Execution Date Execution Date, Transaction Code (Instr. Securities		e (A) sed str.	Expiration	i. Date Exercisable and expiration Date Month/Day/Year)		and 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)  8. Price of Derivative Security Security Security Councer Follow Report		ve Owne es Form ally Direc or Inc ng (I) (In	Ben (D) Owr irect (Ins					
					Code	v	(A)	(D)	Date Exercisa	ıble	Expiration Date	Title	Amount or Number of Shares	mber			
Series 1 Preferred	(3)	06/30/2016			P		100,000		(3)		(3)	Common Stock	(3)	(4)	100,00	00 <sup>(4)</sup>	by Intre

1. Name and Address of Reporting Person*											
KIRK RANDAL J											
(Last)	Last) (First) (Middle)										
C/O THIRD SECURITY, LLC											
1881 GROVE AVENUE											
(Street)											
RADFORD	VA	24141									
(City)	(State)	(Zip)									
1. Name and Address of Reporting Person*											
INTREXON CO	<u>)RP</u>										
(Last)	(First)	(Middle)									
C/O LEGAL DEPA	RTMENT										
20374 SENECA MEADOWS PARKWAY											
(Street)											
GERMANTOWN	MD	20876									
(City)	(State)	(Zip)									
Evalenation of Decam	coc.										

deemed to be beneficially owned (as defined under Rule 13d-3 promulgated under the Securities Exchange Act of 1934, as amended) by Mr. Kirk. Mr. Kirk disclaims beneficial ownership of such shares, except to the extent of any pecuniary interest therein.

- 2. Randal J. Kirk controls each of Kapital Joe, LLC ("Kapital Joe"), Mascara Kaboom, LLC ("Mascara Kaboom"), Third Security Senior Staff 2008 LLC ("Senior Staff 2008"), Third Security Staff 2010 LLC ("Staff 2010"), Third Security Incentive 2010 LLC ("Incentive 2010"), Third Security Staff 2007 LLC ("Senior Staff 2007"), Third Security Staff 2007 LLC ("Staff 2007"), Third Security Staff 2007 LLC ("Staff 2009"), Third Security Staff 2009 LLC ("Staff 2009"), Third Security Staff 2009 LLC ("Incentive 2007"), Third Security Staff 2009 LLC ("Staff 2009"), Third Security Staff 2007 LLC ("Staff 2007"), Third Security Staff 2009 LLC ("Staff 2009"), Third Security Staff 2009 LLC ("Staff 2009"), Third Security Staff 2007 LLC ("Staff 2009"), Third Security Staff 2009 LLC ("Staff 2009"), Third Security Sta
- 3. Each share of Series 1 Preferred Stock ("Preferred Stock") has a stated value of \$1,200, subject to appropriate adjustment in the event of any stock dividend, stock split, combination or other recapitalization with respect to the shares of Preferred Stock. The shares of Preferred Stock shall automatically convert into shares of the issuer's common stock upon the date of commercialization of a product pursuant to the collaboration between Intrexon Corporation ("Intrexon") and the issuer, subject to conversion limitations set forth in the Securities Issuance Agreement entered into between the issuer and Intrexon on June 29, 2016 (the "Issuance Agreement"). The conversion price in connection with such automatic conversion shall be determined as set forth in the Amended and Restated Certificate of Designation, Preferences and Rights of Series 1 Preferred Stock, which the issuer has filed as an exhibit to its Amendment to Current Report on Form 8-K/A, dated July 1, 2016.
- 4. On June 29, 2016, the issuer and Intrexon entered into a Third Amendment to Exclusive Channel Partner Agreement dated January 6, 2011, as amended to date and an Amendment to Exclusive Channel Collaboration Agreement dated September 28, 2015 (hereinafter, the "Amendments"). On July 1, 2016 in consideration for the execution and delivery of the Amendments, the issuer issued to Intrexon 100,000 shares of Preferred Stock, pursuant to the terms of the Issuance Agreement.
- 5. Randal J. Kirk, directly and through certain affiliates, has voting and dispositive power over a majority of the outstanding capital stock of Intrexon. Mr. Kirk may therefore be deemed to have voting and dispositive power over the shares of the issuer owned by Intrexon. Shares held by Intrexon may be deemed to be indirectly beneficially owned (as defined under Rule 13d-3 promulgated under the Securities Exchange Act of 1934, as amended) by Mr. Kirk. Mr. Kirk disclaims beneficial ownership of such shares, except to the extent of any pecuniary interest therein.

 /s/ Randal J. Kirk
 07/06/2016

 /s/ Randal J. Kirk, CEO of Intrexon Corporation
 07/06/2016

 \*\* Signature of Reporting Person
 Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- \* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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